

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/719,976	9,976 11/21/2003		Xuedong Song	KCX-693 (19341)	1744	
22827	7590	09/21/2006	,	EXAMINER		
DORITY &		-	DIRAMIO, JACQUELINE A			
POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449				ART UNIT	PAPER NUMBER	
,				1641	1641 DATE MAILED: 09/21/2006	
				DATE MAIL ED: 00/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

X
---

	Application No.	Applicant(s)						
Office Action Commons	10/719,976	SONG, XUEDONG						
Office Action Summary	Examiner	Art Unit						
	Jacqueline DiRamio	1641						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Responsive to communication(s) filed on 22 Se	entember 2005							
<u> </u>								
<i>,</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
· _								
	Claim(s) <u>1-38</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are withdrawn from consideration.								
, , , ,								
	Claim(s) is/are rejected.							
•	•							
8) Claim(s) <u>1-38</u> are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119		•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
oce the attached detailed office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)						
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	5)	atent Application (PTO-152)						

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 20, drawn to a flow-through assay device, classified in class
   435, subclass 7.1.
- II. Claims 21 38, drawn to a method for detecting the presence or quantity of an analyte, classified in class 436, subclass 501.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process, such as filtration or separation.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, and because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Application/Control Number: 10/719,976 Page 3

Art Unit: 1641

This application contains claims directed to the following patentably distinct species:

If either Group I or Group II is elected, the following species election must be made:

One type of second capture agent:

- 1) Selected from the group consisting of antigens, haptens, protein A or G, neutravidin, avidin, streptavidin, captavidin, primary or secondary antibodies, or complexes thereof (Group I: claims 7 and 18; Group II: claims 27 and 35); or
- 2) A polyelectrolyte (Group I: claims 8-11 and 19; Group II: claims 28 and 36).

The species are independent or distinct because their structures, physiochemical properties, and mode of action are different, and they do not share a common structure that is disclosed to be essential for common utility. Furthermore, the examination of these species would require different searches in the scientific literature. As such, it would be burdensome to search these Species together.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 - 6, 12 - 17, and 20 are generic for Group I; claims 21 - 26, 29 - 34, 37 and 38 are generic for Group II.

Application/Control Number: 10/719,976

Art Unit: 1641

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the

Application/Control Number: 10/719,976

Art Unit: 1641

record that this is the case. In either instance, if the examiner finds one of the inventions

unpatentable over the prior art, the evidence or admission may be used in a rejection

under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jacqueline DiRamio whose telephone number is 571-

272-8785. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner

Art Unit 1641

Page 5

**TECHNOLOGY CENTER 1600**